# BRUHAT BANGALORE MAHANAGARA PALIKE
## DASARAHALLI ZONE

*Name of Work: Improvements to roads & drains at Sheshadri Layout Cross roads & West side roads of Bhyraveshwara Nagara in Bagalagunte W.No-14 .*

| | | | Est. Cost Rs | | | | 50.00 | Lakhs | |
|---|---|---|---|---|---|---|---|---|---|
| Sl | Description of Item | Unit | No | L | B | D | Qty | Rate | Amount |
| 1 | KSRRB 300 - Excavation for road, drains and similar works - KSRRB 300-1. Earthwork excavation by manual means in Ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications complete as per specifications. MORTH Chanter 3 (P 142/I 19.1 PW P & IWTD -SR 2016-17) | | | | | | | | |
| | | Cum | 1 | 150.00 | 6.80 | 0.15 | 153.00 | | |
| | | | 1 | 130.00 | 6.80 | 0.125 | 110.50 | | |
| | | | 2 | 140.00 | 7.00 | 0.15 | 294.00 | | |
| | Basic Rate | 82.00 | | | | | 557.50 | 86.92 | 48458.00 |
| | Add Area Weightage 6% | 4.92 | | | | | | | |
| | Total | 86.92 | | | | | | | |
| 2 | KSRRB 300-53. Construction of embankment with approved material Gravel/Murrum with all lifts and leads, transporting to site, spreading, grading to required slope and compacting to meet requirement Table 300-2 complete as per specifications. (which includes cost of gravel / murrum, watering charges & compaction by vibratory roller) MORTH Specification No. 305 Page No. 148/ Item No. 19.60/ PWD SR | | | | | | | | |
| | | Cum | 1 | 150.00 | 6.80 | 0.45 | 459.00 | | |
| | | | 1 | 130.00 | 6.80 | 0.45 | 397.80 | | |
| | | | 2 | 140.00 | 7.00 | 0.45 | 882.00 | | |
| | Basic Rate | 302.00 | | | | | 1738.80 | 320.12 | 556625.00 |
| | Add Area Weightage 6% | 18.12 | | | | | | | |
| | Total | 320.12 | | | | | | | |
| 3 | KSRRB M400-1 For Grading I material construction of granular sub-base by providing coarse graded crushed stone aggregates of Granite/ trap/basalt material spreading in uniform layers with motir grader on prepared surface mixing by a mix in place method with rotawater at OMC, and Compacting with vibratory roller to achieve the desired density, complete as per specifications.by mix in a Place method for course Graded Granular Sub Base Material as per 400-2 for grading I material . Page No 155/ Item No. | | | | | | | | |
| | | Cum | 1 | 150.00 | 6.80 | 0.15 | 153.00 | | |
| | | | 1 | 130.00 | 6.80 | 0.15 | 132.60 | | |
| | | | 2 | 140.00 | 7.00 | 0.15 | 294.00 | | |
| | Basic Rate | 1433.00 | | | | | 579.60 | 1518.98 | 880401.00 |
| | Add Area Weightage 6% | 85.98 | | | | | | | |
| | TOTAL | 1518.98 | | | | | | | |

| Sl | Description of Item | Unit | No | L | B | D | Qty | Rate | Amount |
|---|---|---|---|---|---|---|---|---|---|
| 4 | Providing, laying, spreading and compacting graded stone aggregates to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying in uniform layers with paver in sub-base / base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications, Specification No. 406 with all leads and lifts etc., complete as per the direction of Engineer-in-charge of the work.( PWD SR | | | | | | | | |
| | Roads | Cum. | 1 | 150.00 | 6.80 | 0.20 | 204.00 | | |
| | | | 1 | 130.00 | 6.80 | 0.20 | 176.80 | | |
| | | | 2 | 140.00 | 7.00 | 0.20 | 392.00 | | |
| | | | | | | | 772.80 | 1768.08 | 1366372.00 |
| | Basic Rate | 1668.00 | | | | | | | |
| | Add Area Weightage 6% | 100.08 | | | | | | | |
| | Total | 1768.08 | | | | | | | |
| 5 | Providing and applying primer coat with S.S. Bitumen emulsion on prepared surface of granular base such as WBM, WMM including clearing of road surface and spraying primer at the rate of 0.6 kg / sqm using mechanical means complete as per specifications, with all leads and lifts etc., complete as per the direction of Engineer-in-charge of the work.( PWDSR | | | | | | | | |
| | | Sqm | 1 | 150.00 | 6.00 | | 900.00 | | |
| | | | 1 | 130.00 | 6.00 | | 780.00 | | |
| | | | 2 | 140.00 | 7.00 | | 1960.00 | | |
| | | | | | | | 3640.00 | 27.56 | 100318.00 |
| | Basic Rate | 26.00 | | | | | | | |
| | Add Area Weightage 6% | 1.56 | | | | | | | |
| | Total | 27.56 | | | | | | | |
| | | | | | | | | | |
| 6 | KSRRB 500-2: Cleaning the existing black topped surface with brooms, soft brushes and finally dusting with old gunny bags and/or compressed air to receive bituminous treatment including cost of all materials, labour, HOM of machineries complete as per specifications. Specification No. KRBS 500-1 MORTH Chapter 5 **Page No. 161/ Item No. 21.2/ PWD SR** | | | | | | | | |
| | | Sqm | 1 | 150.00 | 6.00 | | 900.00 | | |
| | | | 1 | 130.00 | 6.00 | | 780.00 | | |
| | | | 2 | 140.00 | 7.00 | | 1960.00 | | |
| | | | | | | | 3640.00 | 3.18 | 11575.00 |
| | Basic Rate | 3.00 | | | | | | | |
| | Add Area Weightage 6% | 0.18 | | | | | | | |
| | Total | 3.18 | | | | | | | |

| Sl | Description of Item | Unit | No | L | B | D | Qty | Rate | Amount |
|---|---|---|---|---|---|---|---|---|---|
| 7 | KSRRB 500-7: Providing and applying tack coat on the prepared black topped surfaces at 5kg per 10 sqm, heating bitumen in boiler fitted with spray set (Excluding cleaning of road surface) including cost of all Materials, labour, HOM of machineries complete as per specifications. MORTH Chapter 5 Page No. 161/ Item No. 21.7/ PWD SR 2016-17 | | | | | | | | |
| | | Sqm | 1 | 150.00 | 6.00 | | 900.00 | | |
| | | | 1 | 130.00 | 6.00 | | 780.00 | | |
| | | | 2 | 140.00 | 7.00 | | 1960.00 | | |
| | | | | | | | 3640.00 | 11.66 | 42442.00 |
| | Basic Rate | 11.00 | | | | | | | |
| | Add Area Weightage 6% | 0.66 | | | | | | | |
| | Total | 11.66 | | | | | | | |
| 8 | Providing and laying bituminous macadam on prepared surface with crushed coarse aggregates as per design mix formula for base / binding course including loading of aggregates with F.E. loader, hot mixing of stone aggregates and bitumen in hot mix plant 40 tonne capacity, transporting the mixed material in tipper to paver and laying mixed materials with paver finisher to the required level and grade, rolling by power roller to achieve the desired density, 50/75mm compacted thickness with 3.3% bitumen but excluding the cost of primer/tack coat with lead incl. cost of all materials, labour, HOM of machineries complete as per specifications with 80/100 grade bitumen using 40/60TPH capacity H.M.P with Mechanical paver Gr II (50/75mm) with 3.3% VG-30 Bitumen as per the directions of Engineer-in- | | | | | | | | |
| | | Cum | 1 | 150.00 | 6.00 | 0.05 | 45.00 | | |
| | | | 1 | 130.00 | 6.00 | 0.05 | 39.00 | | |
| | | | 2 | 140.00 | 7.00 | 0.05 | 98.00 | | |
| | Basic Rate | 4839.00 | | | | | 182.00 | 5129.34 | 933540.00 |
| | Add Area Weightage 6% | 290.34 | | | | | | | |
| | Total | 5129.34 | | | | | | | |
| 9 | Providing and laying bituminous concrete with hot mix plant using crushed aggregates of specified grading, premixed with bituminous binder and filter transporting the hot mix to work site laying with paver finisher to the required grade, level and alignment. rolling with smooth wheeled vibratory and tandem rollers to achieve the desired compaction as per MORTH Speicification clause no 500.9 complete in all respects complete as per specification no 509. using 40/60 TPH Capacity H.M.P With Mechanical paver Gr-II (30 mm to 45 mm) with 6% VG-30 Bitumen (p-165, lt 21.22.6) PWD SR | | | | | | | | |
| | | Cum | 1 | 150.00 | 6.00 | 0.030 | 27.00 | | |
| | | | 1 | 130.00 | 6.00 | 0.030 | 23.40 | | |
| | | | 2 | 140.00 | 7.00 | 0.030 | 58.80 | | |
| | Basic Rate | 6683.00 | | | | | 109.20 | 7083.98 | 773571.00 |
| | Add Area Weightage 6% | 400.98 | | | | | | | |
| | Total | 7083.98 | | | | | | | |

| Sl | Description of Item | Unit | No | L | B | D | Qty | Rate | Amount |
|---|---|---|---|---|---|---|---|---|---|
| 10 | Disposal of debris to the final place of disposal with all lead and lift and as direction by the engineer in charge of the work, lead 4 Km a) Basic rate for haulage of materials as per item No. 17.4/KSRRB : M100-4.1 ..... Rs. 2.00 Tonne/Km b) Average earth of work 1.28 Tonne/Km for Rs. 2.00/Km c) Add loading and unloading Page No. 133 Item No. 17.1 PWD SR | | | | | | | | |
| | | Cum | Qty Vide Item No. 1 | | | | 557.50 | 85.65 | 47749.00 |
| | Loading and Unloading Charges | 68.00 | | | | | | | |
| | Lead 4 KMs 2.5x1.28x4 | 12.80 | | | | | | | |
| | | 80.80 | | | | | | | |
| | Add Area Weightage 6% | 4.85 | | | | | | | |
| | Total | 85.65 | | | | | | | |
| | | | | | | | Sub Total | | 4761051.00 |
| 11 | Tender Premium | | | | | | | | 238053.00 |
| 12 | Miscellaneous and UnforessenCharges | | | | | | | | 896.00 |
| | | | | | | | | Total | 5000000.00 |

(Rupees.Fifty Lakhs Only)

CERTIFICATE:-

1 The Work spot has been inspected and the work is found to be necessary
2 The Estimate is prepared as per the PWD-2016-17
3 The Provision made in estimate are adequate and essential.
4 This area comes under BBMP limits.

Assistant Engineer
Ward-14

Assistant Executive Engineer
T. Dasarahalli Sub-Division
B.B.M.P

Executive Engineer
Dasarahalli Division
B.B.M.P. Bangalore.




